

Three Species of the Genus *Agroeca* (Araneae: Clubionidae)
from Japan, Including a New Species

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林 俊夫¹⁾: 1新種を含む日本産タンボグモ属 (クモ目:
フクログモ科) の3種

Abstract Three species of the genus *Agroeca* are reported from Japan: *A. montana* HAYASHI, 1986, *A. coreana* NAMKUNG, 1989, and *A. kamurai* sp. nov. Key to the Japanese species of the genus *Agroeca* is also given.

In 1986, the author described *Agroeca montana* HAYASHI which was the only known species of the genus from Japan. Recently, the author had an opportunity to examine some specimens of two species of *Agroeca* collected by Dr. Takahide KAMURA.

After a careful examination, the author recognized that one of these species is *Agroeca coreana* NAMKUNG, 1989, new to the fauna of Japan, and the other is new to science. Both the species will be described in this paper.

The holotype and allotype of the new species are deposited in the collection of the National Science Museum (Nat. Hist.), Tokyo.

The abbreviations used in this paper are the same as those explained in HAYASHI (1986).

Genus *Agroeca* WESTRING, 1861

A Japanese species of this genus was described by the author for the first time in 1986. Three species are known from Japan at present.

Characteristics of the genus are shown in HAYASHI (1986).

Key to the Japanese Species

1. Body total length more than 2.5 mm 2.
- Body total length less than 2.5 mm *A. kamurai* sp. nov.
2. Retrolateral tibial apophysis (RTA) of male palp bifurcated; median apophysis (MA) long and slender. (The female of *coreana* was not available.) *A. coreana* NAMKUNG, 1989.

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- RTA not bifurcated; MA relatively broad; epigynal ducts relatively simple loops *A. montana* HAYASHI, 1986.

***Agroeca montana* HAYASHI, 1986**

(Figs. 1–4)

Agroeca montana HAYASHI, 1986, Proc. Japn. Soc. syst. Zool., 33: 24, figs. 1–10.

Notes. This species was described by the author. He collected many specimens from the forest near the southeastern foot of Mt. Akagi.

It may be possible that the female of *A. coreana* described by NAMKUNG (1989) corresponds to that of *A. montana*.

***Agroeca kamurai* sp. nov.**

(Figs. 5–8)

Measurements. Male/female (in mm). Body length 2.20/2.10, Cephalothorax length 1.10/1.15, width 0.85/0.80, abdomen length 1.02/1.34, width 0.73/0.98; lengths of legs as in Table 1. AME 0.04/0.07, ALE 0.06/0.12, PME 0.06/0.10, PLE 0.06/0.10, AME–AME 0.01/0.02, AME–ALE 0.01/0.04, PME–PME 0.06/0.12, PME–PLE 0.04/0.07, ALE–PLE 0.02/0.07, MOA front 0.09/0.20, hind 0.19/0.37, length 0.14/0.29.

Table 1. Lengths of legs of *Agroeca kamurai* sp. nov. (♂/♀; in mm).

Leg	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
I	0.80/0.80	0.44/0.37	0.68/0.66	0.49/0.44	0.51/0.44	2.92/2.71
II	0.85/0.68	0.39/0.32	0.54/0.54	0.49/0.41	0.51/0.41	2.78/2.36
III	0.59/0.61	0.37/0.24	0.49/0.37	0.56/0.51	0.49/0.44	2.50/2.17
IV	0.98/0.80	0.46/0.46	0.85/0.73	0.98/0.78	0.61/0.46	3.88/3.23

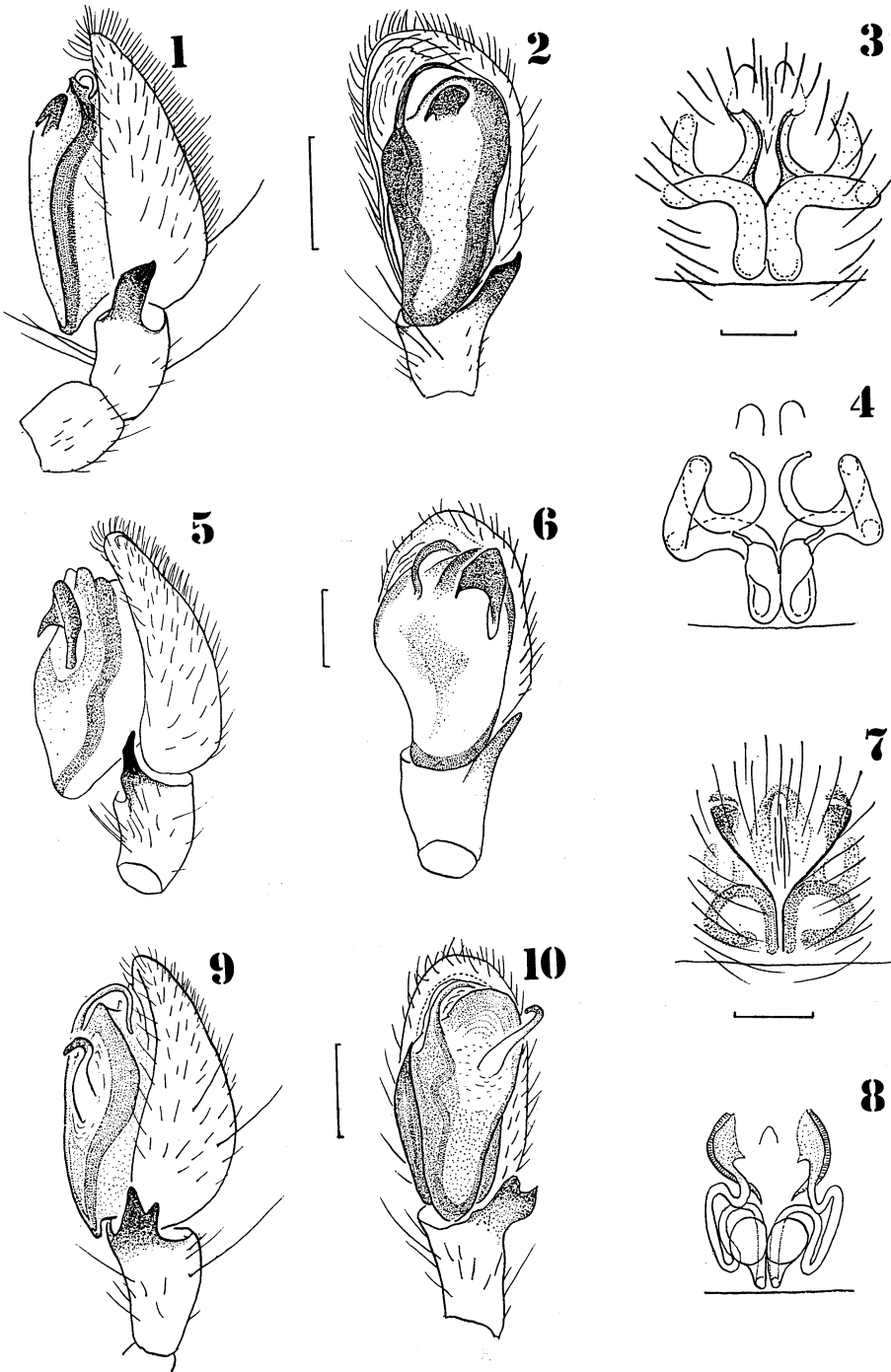
Chelicera normal with two teeth on pro- and retromargins of fang furrow. Metatarsi I and II with 2–2 ventral spines.

Male palp (Figs. 5–6). Tegulum with a sickle-shaped apophysis (Fig. 5), tibial apophysis long and slender and not bifurcated.

Female genitalia (Fig. 8). Epigynum with Y-shaped margin (Fig. 7), ducts Ω -shaped curve.

Coloration and markings. Carapace light brown with dark brown stripe along the margin. Chelicera, maxillae, labium and sternum light brown. Legs light brown, becoming darker towards the distal ends. Abdomen greyish brown with chevrons.

Figs. 1–10 (on page 135). 1–4, *Agroeca montana* HAYASHI, 1986; 5–8, *Agroeca kamurai* sp. nov.; 9–10, *Agroeca coreana* NAMKUNG, 1989. — 1, 5, 9, male palp, ectal view; 2, 6, 10, same, ventral view; 3, 7, epigynum, ventral view; 4, 8, genitalia, dorsal view. Scale: 0.25 mm.



Type specimens. Holotype: ♂, Kami-kamo, Kita-ku, Kyoto City, Kyoto Prefecture, 3-V-1983, T. KAMURA leg., allotype: ♀, same data as for the holotype. Paratype: ♂, Fujioka City, Gunma Prefecture, 26-V-1985, T. HAYASHI leg.

Notes. This new species resembles *A. montana* HAYASHI, 1986, but is distinguished from the latter by the shapes of retrolateral apophysis on palpal tibia and copulatory ducts. This new species is smaller than *A. coreana* and *A. montana*, and its body length is less than 2.5 mm.

Etymology. This species is named after the collector, Dr. T. KAMURA.

Agroeca coreana NAMKUNG, 1989

(Figs. 9–10)

Agroeca coreana NAMKUNG, 1989, Korean Arachnol., 5(1): 24, figs. 1–10.

Description based on the Japanese specimen. *Measurements.* Male (in mm). Body length 3.54; cephalothorax length 2.07, width 1.54; abdomen length 1.46, width 1.10; lengths of legs as in Table 2. AME 0.06, ALE 0.11, PME 0.11, PLE 0.12, AME–AME=PME–PLE 0.06, AME–ALE 0.02, PME–PME 0.10, ALE–PLE 0.04. MOA front 0.21, hind 0.31, length 0.22.

Table 2. Lengths of legs of *Agroeca coreana* NAMKUNG, 1989 (♂; in mm).

Leg	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
I	1.59	0.88	1.34	1.10	0.90	5.81
II	1.34	0.80	1.02	1.02	0.66	4.84
III	1.34	0.73	0.95	1.15	0.73	4.90
IV	1.90	0.85	1.59	2.02	0.98	7.34

Chelicera normal; promargin of fang furrow with three teeth, retromargin with two teeth. Metatarsi I and II with 2–2 ventral spines, tibiae and metatarsi III and IV with 2–2–2 ventral spines.

Male palp (Figs. 9–10). Tegulum with a tibial apophysis long, fishhook-shaped and bifurcated.

Coloration and markings. Carapace and chelicerae, maxillae, labium, sternum and legs light brown. Abdomen greyish brown.

Specimen examined. 1 ♂: Kami-kamo, Kita-ku, Kyoto City, Kyoto Prefecture, 29-IX-1984, T. KAMURA leg.

Remarks. Both sexes of *A. coreana* were described by NAMKUNG (1989) from Korea. The male from Japan well agrees with that of the figure made by NAMKUNG. The figure of female by NAMKUNG strongly resembles that of *A. montana* HAYASHI, 1986, from Japan, but the opening part of epigynum of *coreana* seems wider than that of *montana*. This species is new to the fauna of Japan, on the basis of the male specimen.

Acknowledgements

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摘 要

日本産タンボグモ属の3種, *Agroeca coreana* NAMKUNG, 1989 コウライタンボグモ (新称), *A. montana* HAYASHI, 1986 ミヤマタンボグモ, *A. kamurai* sp. nov. カムラタンボグモ (新称) を報告した. また, 日本産タンボグモ属の検索表を記した.

References

- HAYASHI, T., 1986. A new Japanese spiders of the genus *Agroeca* (Araneae: Clubionidae). *Proc. Japn. Soc. syst. Zool.*, (33): 23-28.
- NAMKUNG, J., 1989. A new species of the genus *Agroeca* (Araneae: Clubionidae) from Korea. *Korean Arachnol.*, 5: 23-28.

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